BRUHAT BANGALORE MAHANAGARA PALIKE

Yelehanka Division

Work Slip: As per Std. Tender Documents

Name of work : Comprehensive development of Roads and Drains at Maruthinagara 3rd main road, Mathru Layout, Someshwara nagara, Sharada Nagara and B sector in Wards No-01, 02 & 04 of Yelahanka Division (Package No - 04)

Estimate Amount : 100,000,000.00

Name of Contractor : M/s NANDI CONSTRUCTION

Approved Amount : 96,447,966.00

Job Code : 004-21-000034

Sl No	Description of Work	Unit	Qty as per Quoted Rate			Total Qty Executed	Qty as per Anticipated upto 125%			Qty as per Anticipated above 125%			Total Amount	Excess amount	Savings amount	Remarks
			Qty.	Rate	Amt.		Quantity	Rate	Amount (Rs.)	Quantity	Rate	Amount (Rs.)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. a)Dismantling Stone Masonry B. Rubble Stone masonry in cement mortar No complete as per specifications and directions of the Engineer in charge	Sqm	61.56	461.18	28390	61.56	61.56	461.18	28390	0.00	461.18	0.00	28390			
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete I By Manual Means B. Cement Concrete Grade M-15 & M-20 MORTH Specification No. 202 complete as per specifications and directions of the Engineer in charge.	Sqm	471.00	690.41	325225	462.00	462.00	690.41	318969	0.00	690.41	0.00	318969		6255	
3	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and directions of the Engineer in charge	m	11276.32	215.25	2427228	11276.32	11276.32	215.25	2427228	0.00	215.25	0.00	2427228			
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) complete as per specifications and directions of the Engineer in charge	cum	1824.11	116.84	213129	2079.72	2079.72	116.84	242995	0.00	116.84	0.00	242995	29866		
5	Providing and laying Plain cement concrete of mix1 3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications and directions of the Engineer in charge	cum	1864.29	5691.91	10611371	1759.34	1759.34	5691.91	10013989	0.00	5691.91	0.00	10013989		597382	

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machine mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per month MORTH specification No. 1500, 1700, 2200 Including Cost of material, Labour, HOM complete as per specifications and directions of the Engineer in charge.	cum	3263.08	7422.30	24219559	3346.94	3346.94	7422.30	24841968	0.00	7422.30	0.00	24841968	622410		
7	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge	MT	199.03	####### 75928.86	15112121	198.85	198.85	75928.86	15098297	0.00	#######	0.00	15098297		13824	
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc , complete as per specifications and directions of the Engineer in charge (Data Rate)	cum	5715.42	2453.38	14022097	5561.74	5561.74	2453.38	13645056	0.00	2453.38	0.00	13645056		377042	
9	Suply And Fixing precast concrete Slab 15cm thick including Cost Of reinforcement as per design and drawing materail cost transportation here Charge of Machinary cutting the vertical face to get plain even surface etc complete with all leads and lifts conveyance charges labour charges inclusive of cost of all materials and as per the directions of the Engineer-in-charge of the work	cum	466.50	2617.15	1220900	420.60	420.60	2617.15	1100773	0.00	2617.15	0.00	1100773		120127	
10	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc , complete as per specifications and directions of the Engineer in charge	Sqm	268.35	5687.82	1526326	179.88	179.88	5687.82	1023125	0.00	5687.82	0.00	1023125		503201	
11	Removing and resetting of kerb stones, complete as per specifications and directions of the Engineer in charge	Sqm	1936.00	110.17	213289	1936.00	1936.00	110.17	213289	0.00	110.17	0.00	213289			
12	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications and directions of the Engineer in charge	Nos	242.35	6033.54	1462228	244.31	244.31	6033.54	1474066	0.00	6033.54	0.00	1474066	11838		

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
13	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete as per specifications and directions of the Engineer in charge.	Sqm	14957.00	454.02	6790777	14957.00	14957.00	454.02	6790777	0.00	454.02	0.00	6790777			
14	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications and directions of the Engineer in charge.	Sqm	3466.40	89.02	308579	3466.40	3466.40	89.02	308579	0.00	89.02	0.00	308579			
15	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and directions of the Engineer in charge	Sqm	279.37	56.37	15748	279.37	279.37	56.37	15748	0.00	56.37	0.00	15748			
16	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications and directions of the Engineer in charge	cum	1314.10	43.40	57032	1591.50	1591.50	43.40	69071	0.00	43.40	0.00	69071	12039		
17	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications and directions of the Engineer in charge	cum	1788.80	6.68	11949	1699.50	1699.50	6.68	11353	0.00	6.68	0.00	11353		597	
18	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications and directions of the Engineer in charge	cum	61.82	2094.27	129468	61.82	61.82	2094.27	129468	0.00	2094.27	0.00	129468			
19	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and directions of the Engineer in charge	Sqm	217.56	2100.94	457081	216.06	216.06	2100.94	453924	0.00	2100.94	0.00	453924		3157	

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
20	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge	Sqm	945.90	23.37	22106	945.90	945.90	23.37	22106	0.00	23.37	0.00	22106			
21	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and directions of the Engineer in charge	Sqm	3172.77	30.05	95342	3965.96	3965.96	30.05	119177	0.00	30.05	0.00	119177	23835		
22	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications and directions of the Engineer in charge	cum	158.64	6925.99	1098739	198.30	198.30	6925.99	1373424	0.00	6925.99	0.00	1373424	274685		
23	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and directions of the Engineer in charge	Sqm	14845.80	5.56	82543	18172.88	18172.88	5.56	101041	0.00	5.56	0.00	101041	18499		
24	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications and directions of the Engineer in charge	cum	14845.80	13.35	198191	18172.88	18172.88	13.35	242608	0.00	13.35	0.00	242608	44416		
25	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications and directions of the Engineer in charge	Sqm	583.22	8140.04	4747434	727.31	727.31	8140.04	5920348	0.00	8140.04	0.00	5920348	1172914		

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26 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface / Concrete Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and directions of the Engineer in charge.	Nos	599.10	477.39	286004	748.88	748.88	477.39	357505	0.00	477.39	0.00	357505	71501		
27 Cement concrete pavement Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC cement aggregate of 0.80mm fine aggregate of 0.40mm coarse and fine aggregate conforming to IS 383-2016 with superplasticizer @1% conforming to IS9103:2019 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid on approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers compacted using needle vibrator and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impervious plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine and curing including cost of all materials labour hire charges of machineries all load and lift charges etc., complete as per specifications. - do with OPC @ 360kg per cum coarse aggregate @ 0.80mm and fine aggregate @ 0.40mm complete as per specifications and directions of the Engineer in charge	Sqm	377.60	5470.47	2065649	254.93	254.93	5470.47	1394560	0.00	5470.47	0.00	1394560		671090	
28 Road markers/ Road stud . Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997 The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, 6of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nils and using epoxy resin based adhesive as per manufacture's recommendation and complete as per specifications and directions of the Engineer in charge	Nos	434.00	375.01	162754	434.00	434.00	375.01	162754	0.00	375.01	0.00	162754			

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1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
													2282002	2292675	
2												12%	221596	222632	
SUB TOTAL													2503598	2515307	
GST															
TOTAL															

Note: Percentage of Workslip over Sanctioned Estimate=Excess amount over the approved amount/Approved Amount X 100

Approved Amount=	96447966
Excess Amount=	2503598
Savings Amount=	2515307

Percentage of Workslip = $\frac{\text{Excess Amount}}{\text{Approved Amount}} \times 100$

Percentage of Workslip =	2.60 %

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Executive Engineer
Yelahanka Division
Yelahanka Zone
Bruhat Bangalore Mahanagara Palike
BANGALORE - 560064

"WORKSLIP APPROVED"

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.